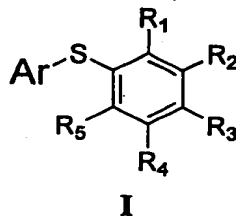


## CLAIMS

What is claimed is:

1. A compound of formula I

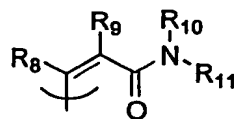


or a pharmaceutically-acceptable salt or prodrug thereof,

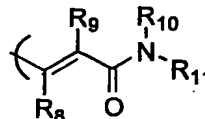
wherein  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ , and  $R_5$  are independently selected from

- a. hydrogen,
- b. halogen,
- c. alkyl,
- d. haloalkyl,
- e. alkoxy,
- f. cyano,
- g. nitro,
- h. carboxaldehyde, and

with the proviso that at least one of  $R_1$  or  $R_3$  is a "*cis*-cinnamide" or a "*trans*-cinnamide", defined as



"*cis*-cinnamide"



"*trans*-cinnamide",

wherein  $R_8$  and  $R_9$  are independently selected from

- a. hydrogen,
- b. alkyl,

- c. carboxy alkyl,
- d. alkylaminocarbonyl alkyl, and
- e. dialkylaminocarbonyl alkyl,

5 and  $R_{10}$  and  $R_{11}$  are independently selected from

- a. hydrogen,
- b. alkyl,
- c. cycloalkyl,
- 10 d. alkoxy carbonyl alkyl,
- e. hydroxyalkyl,
- f. substituted aryl,
- g. heterocyclyl,
- h. heterocyclylalkyl,
- 15 i. heterocyclylamino,
- j. substituted heterocyclyl, and
- k. substituted heterocyclylalkyl,

20 or where  $NR_{10}R_{11}$  is heterocyclyl or substituted heterocyclyl, where substituents are independently selected from

- 1) alkyl,
- 2) alkoxy,
- 3) alkoxyalkyl,
- 25 4) cycloalkyl,
- 5) aryl,
- 6) heterocyclyl,
- 7) heterocyclylcarbonyl,
- 8) heterocyclylalkylaminocarbonyl,
- 30 9) hydroxy,
- 10) hydroxyalkyl,
- 11) hydroxyalkoxyalkyl,
- 12) carboxy,
- 13) carboxyalkyl,
- 35 14) carboxycarbonyl,

- 5 15) carboxaldehyde,  
16) alkoxycarbonyl,  
17) arylalkoxycarbonyl,  
18) aminoalkyl,  
19) aminoalkanoyl,  
20) carboxamido,  
21) alkoxycarbonylalkyl,  
22) carboxamidoalkyl,  
10 23) cyano,  
24) tetrazolyl,  
25) substituted tetrazolyl,  
26) alkanoyl,  
27) hydroxyalkanoyl,  
28) alkanoyloxy,  
15 29) alkanoylamino,  
30) alkanoyloxyalkyl,  
31) alkanoylaminoalkyl,  
32) sulfonate,  
33) alkylsulfonyl,  
20 34) alkylsulfonylaminocarbonyl,  
35) arylsulfonylaminocarbonyl, and  
36) heterocyclylsulfonylaminocarbonyl,

and wherein Ar is a substituted aryl or substituted heteroaryl group, where  
25 substitutions are independently selected from

- a. hydrogen,  
b. halogen,  
c. alkyl,  
30 d. aryl,  
e. haloalkyl,  
f. hydroxy,  
g. alkoxy,  
h. alkoxyalkyl,  
35 i. alkoxycarbonyl,

- j. alkoxyalkoxy,
- k. hydroxyalkyl,
- l. aminoalkyl,
- m. aminocarbonyl,
- 5 n. alkyl(alkoxycarbonylalkyl)aminoalkyl,
- o. heterocyclyl,
- p. substituted heterocyclyl,
- q. heterocyclylalkyl,
- r. substituted heterocyclylalkyl,
- 10 s. carboxaldehyde,
- t. carboxaldehyde hydrazone,
- u. carboxamide,
- v. alkoxycarbonylalkyl,
- w. carboxy,
- 15 x. carboxyalkyl,
- y. carboxyalkoxy,
- z. carboxythioalkoxy,
- aa. carboxycycloalkoxy,
- bb. thioalkyl,
- 20 cc. hydroxycarbonylalkyl (carboxyalkyl),
- dd. hydroxyalkylaminocarbonyl,
- ee. cyano,
- ff. amino,
- gg. heterocyclylalkylamino,
- 25 hh. carboxyalkylamino,
- ii. heterocyclylalkylaminocarbonyl, and
- jj. "*trans*-cinnamide",

or a pharmaceutically-acceptable salt or prodrug thereof.

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2. A compound according to Claim 1 wherein  $R_1$  is a "*cis*-cinnamide" or a "*trans*-cinnamide", and  $R_3$  is hydrogen.

3. A compound according to Claim 1 wherein  $R_3$  is a "*cis*-cinnamide" or a  
35 "*trans*-cinnamide", and  $R_1$  is hydrogen.

4. A compound according to Claim 1 wherein R<sub>3</sub> is a "*cis*-cinnamide" or a "*trans*-cinnamide", and R<sub>1</sub>, R<sub>8</sub>, and R<sub>9</sub> are hydrogen.
5. A compound according to Claim 4 wherein R<sub>3</sub> is a "*cis*-cinnamide".
6. A compound according to Claim 4 wherein R<sub>3</sub> is a "*trans*-cinnamide".
7. A compound according to Claim 1 wherein R<sub>3</sub> is a "*cis*-cinnamide" or a "*trans*-cinnamide", R<sub>1</sub>, R<sub>2</sub>, and R<sub>4</sub> are each independently hydrogen or alkyl; and R<sub>5</sub> is selected from halogen, haloalkyl, and nitro.
8. A compound according to Claim 4 wherein Ar is substituted aryl or substituted heteroaryl.
9. A compound according to Claim 4 wherein R<sub>10</sub> and R<sub>11</sub> are each independently selected from hydrogen, alkyl, cycloalkyl, alkoxycarbonylalkyl, hydroxyalkyl, and heterocyclalkyl.
10. A compound according to Claim 4 wherein NR<sub>10</sub>R<sub>11</sub> is heterocyclalkyl or substituted heterocyclalkyl.
11. A compound according to Claim 8 wherein Ar is selected from substituted phenyl, 1,3-benzimidazol-2-one, 1,4-benzodioxane, 1,3-benzodioxole, 1-benzopyr-2-en-4-one, indole, isatin, 1,3-quinazolin-4-one, and quinoline.
12. A compound according to Claim 1 selected from the group consisting of:  
 (2,4-Dichlorophenyl)[2-( *E*-((6-hydroxyhexylamino)carbonyl)ethenyl)phenyl] sulfide;  
 (2,4-Dichlorophenyl)[2-( *E*-((3-(1-imidazolyl)propylamino)carbonyl)ethenyl)phenyl]  
 sulfide;  
 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((2 hydroxyethylamino)carbonyl)ethenyl)phenyl]  
 sulfide;  
 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((6 ydroxyhexylamino)carbonyl)ethenyl)phenyl]  
 sulfide;  
 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((bis-(2-hydroxyethyl)amino)carbonyl)ethenyl)

- phenyl] sulfide;  
 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((3-(1-pyrrolidin-2-onyl)propylamino)carbonyl)ethenyl)phenyl] sulfide;  
 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl]  
 5 sulfide;  
 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-methylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 10 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-(2-pyridyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-(Hydroxymethyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Bromophenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;  
 15 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-(2-hydroxyethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-(2-hydroxyethoxyethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Bromophenyl)[2-chloro-4-( *E*-((3-(hydroxymethyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 20 (2-Bromophenyl)[2-chloro-4-( *E*-((2-(hydroxymethyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Bromophenyl)[2-chloro-4-( *E*-((3-acetamidopyrrolidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 25 (2-Bromophenyl)[2-chloro-4-( *E*-((4-hydroxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Bromophenyl)[2-chloro-4-( *E*-((piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 30 (2,4-Dichlorophenyl)[2-chloro-4-( *E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Bromophenyl)[2-chloro-4-( *E*-((4-acetylhomopiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Bromophenyl)[2-chloro-4-( *E*-((thiomorpholin-1-yl)carbonyl)ethenyl)phenyl]  
 35 sulfide;

- (2-Bromophenyl)[2-chloro-4-(*E*-((4-(1-benzimidazol-2-onyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Bromophenyl)[2-chloro-4-(*E*-((2-etrahydroisoquinoliny)carbonyl)ethenyl)phenyl] sulfide;
- 5 (2-Methylphenyl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methylphenyl)[2-trifluoromethyl-4-(*E*-((1-morpholiny)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methylphenyl)[2-trifluoromethyl-4-(*E*-((2-(1-morpholiny)ethylamino)carbonyl)ethenyl)phenyl] sulfide;
- 10 (2-Methylphenyl)[2-trifluoromethyl-4-(*E*-((4-phenylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methylphenyl)[2-trifluoromethyl-4-(*E*-((3-(1-pyrrolidin-2-onyl)propylamino)carbonyl)ethenyl)phenyl] sulfide;
- 15 (2-Methylphenyl)[2-trifluoromethyl-4-(*E*-((cyclopropylamino)carbonyl)ethenyl)phenyl] sulfide;
- (2,4-Dichlorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 20 (2,4-Dichlorophenyl)[2-nitro-4-(*E*-((3-(1-pyrrolidin-2-onyl)propylamino)carbonyl)ethenyl)phenyl] sulfide;
- (2,3-Dichlorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (4-Bromophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 25 (4-Methylphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2,4-Dichlorophenyl)[2-nitro-4-(*E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 30 (2,4-Dichlorophenyl)[2-nitro-4-(*E*-((4-(2-furoylcarbonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2,4-Dichlorophenyl)[2-nitro-4-(*E*-((4-(methanesulfonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2,4-Dichlorophenyl)[2-nitro-4-(*E*-((4-(diethylaminocarbonylmethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 35

- (2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(diethylaminocarbonyl)piperazin-1-yl)carbonyl) ethenyl)phenyl] sulfide;
- (2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(*tert*-butoxycarbonylmethyl)piperazin-1-yl)carbonyl) ethenyl)phenyl] sulfide;
- 5 (2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(carboxycarbonyl)piperazin-1-yl)carbonyl) ethenyl)phenyl] sulfide;
- (2,4-Dichlorophenyl)[2-nitro-4-( *E*-((4-(carboxymethyl)piperazin-1-yl)carbonyl) ethenyl)phenyl] sulfide;
- (2-Methylphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]
- 10 sulfide;
- (2-Chlorophenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Aminophenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 15 (2-Hydroxymethylphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- (2-Ethylphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 50 (2-*iso*-Propylphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]
- 20 sulfide;
- (2-*tert*-Butylphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Chlorophenyl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl))2-propenyl)phenyl]
- 25 sulfide;
- (2-(1-Morpholinylmethyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl) ethenyl)phenyl] sulfide;
- (2-(4-(1,3-Benzodioxolyl-5-methyl)piperazin-1-ylmethyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl) ethenyl)phenyl] sulfide;
- 30 (2-(4-(*iso*-Propylaminocarbonylmethyl)piperazin-1-ylmethyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl) ethenyl)phenyl] sulfide;
- (2-((*N*-Ethoxycarbonylmethyl-*N*-methyl)aminomethyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl) ethenyl)phenyl] sulfide;
- (2-Formylphenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;
- 35 (2-(4-Formylpiperazin-1-ylmethyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)



- ethenyl)phenyl] sulfide;  
 (2-( *E*-((1-Morpholinyl)carbonyl)ethenyl)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Formylphenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]  
 5 sulfide;  
 (2-Formylphenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide,  
 N,N-dimethyl hydrazone;  
 (2-((3-(1-Morpholinyl)propyl)-1-amino)phenyl)[2-chloro-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;  
 10 (2,4-Dichlorophenyl)[2-bromo-4-( *E*-((3-(1-pyrrolidin-2-onyl)propylamino)carbonyl)ethenyl)phenyl] sulfide;  
 (2,4-Dichlorophenyl)[2-formyl-4-( *E*-((1-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Chloro-6-formylphenyl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)  
 15 phenyl] sulfide; 225  
 (2-Cyanophenyl)[2-chloro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Isopropylphenyl)[2-cyano-4-( *E*-((morpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 20 (2-Bromophenyl)[2-nitro-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-(Pyrrolidin-1-yl)phenyl)[2-chloro-4-( *E*-((morpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Methoxyphenyl)-[2-chloro-4-(*E*-((morpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 25 (2-Isopropylphenyl)[2-nitro-4-( *E*-((3-carbomethoxypiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Methylphenyl)[2-nitro-4-( *E*-((3-carboxamido-4-carbobenzoxypiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-( *E*-((2-carbomethoxy-4-*tert*-butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 30 (2-Isopropylphenyl)[2-nitro-4-( *E*-((2-carboxy-4-*tert*-butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 (2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;  
 35 (2-Isopropylphenyl)[2-trifluoromethyl-4-( *E*-((morpholin-1-yl)carbonyl)

- ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-trifluoromethyl-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;  
 (2-Isopropylphenyl)[2-trifluoromethyl-4-(*E*-((cyclobutylamino)carbonyl) ethenyl) phenyl] sulfide;  
 5 (2-Isopropylphenyl)[2-trifluoromethyl-4-(*E*-((cyclopentylamino)carbonyl) ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-trifluoromethyl-4-(*E*-((5-hydroxypent-1-ylamino)carbonyl) ethenyl) phenyl] sulfide;  
 10 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carbomethoxy-4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Biphenyl)[2-chloro-4-(*E*-((morpholin-1-yl)carbonyl) ethenyl) phenyl] sulfide;  
 (3,4-Dimethylphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;  
 15 (2-Bromophenyl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl) ethenyl) phenyl] sulfide;  
 (5-Indolyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl) ethenyl) phenyl] sulfide;  
 20 (5-Benzodioxolyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl) ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-carbomethoxypiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2,3-Dimethoxyphenyl)-[2-chloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl]  
 25 sulfide;  
 (2-Fluorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;  
 (2-Bromophenyl)[2-trifluoromethyl-4-(*E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 30 (2-(Pyrrolidin-1-yl)phenyl)[2-trifluoromethyl-4-(*E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (3-Carboxamidophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl) ethenyl) phenyl] sulfide;  
 (3-(Hydroxymethyl)phenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl) ethenyl) phenyl] sulfide;  
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- Phenyl[2-trifluoromethyl-4-(*E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-trifluoromethyl-4-(*E*-((2-carbomethoxy-4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 5 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(pyridine-4-methylaminocarbonyl)-4-*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Ethoxyphenyl)-[2-chloro-4-(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl]sulfide;  
 (2-Methoxyphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;  
 10 (2-(Azetidin-1-yl)phenyl)[2-trifluoromethyl-4-(*E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-(Piperidin-1-yl)phenyl)[2-trifluoromethyl-4-(*E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (3-Chloro-2-formylphenyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 15 (2-Trifluoromethylphenyl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (3-Bromophenyl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 20 (3,5-Dimethylphenyl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-dimethylaminocarbonyl-4-(pyridine-4-carbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-dimethylaminocarbonyl-4-carbomethoxypiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 25 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-dimethylaminocarbonyl-4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(1-morpholinocarbonyl)-4-*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 30 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(pyridine-4-methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-(((3-dimethylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(benzylaminocarbonyl)-4-*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
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- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(dimethylaminocarbonyl)-4-*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Bromophenyl)[2-chloro-4-(*E*-((3-(5*S*-hydroxymethyl-pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;
- 5 (2-Bromophenyl)[2-chloro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;
- (2-Bromophenyl)[2-chloro-4-(*E*-(*N*-methyl-*N*-(3-(pyrrolidin-2-on-1-yl)prop-1-yl)amino)carbonyl) ethenyl)phenyl]sulfide;
- 10 (2-[2-Methoxy]ethoxyphenyl)-[2-chloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(morpholinocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 15 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-methoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-(4-(pyridine-4-carbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(pyridine-3-methylaminocarbonyl)-4-*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 20 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(pyridine-2-methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(pyridine-3-methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 25 (4-Hydroxyphenyl)[2-nitro-4-(*E*-((4-acetyl)piperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- (3,5-Dichlorophenyl)[2-nitro-4-(*E*-((4-acetyl)piperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- (2-Bromophenyl)[2-chloro-4-(*E*-((3-(5*S*-acetoxymethyl-pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;
- 30 (2-Bromophenyl)[2-chloro-4-(*E*-((3-(5*S*-methoxymethyl-pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;
- (2-Bromophenyl)[2-chloro-4-(*E*-((3-(4*R*-hydroxymethyl-pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;
- 35 Phenyl[2-nitro-4-(*E*-((4-acetyl)piperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;

- (2-Dimethylaminophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (3-((2-Hydroxyethyl)aminocarbonyl)phenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 5 (3-((3-(1-Imidazolyl)propyl)aminocarbonyl)phenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (3-((2-(1-Morpholinyl)ethyl)aminocarbonyl)phenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 10 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-hydroxymethyl-4-*tert*-butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-formylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-hydroxymethyl-4-*tert*-butoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 15 (2-Ethoxyphenyl)-[2-chloro-4-(*E*-[(3-ethoxycarbonylpiperidin-1-yl)carbonyl]ethenyl) phenyl]sulfide;
- (3- Aminophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- (4-Aminophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- 20 (2,4-Dimethylphenyl)[2- nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- (2,5-Dimethylphenyl)[2- nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- 25 (4-Methoxyphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- (3-Chlorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- (2-Chloro, 4,5-diaminophenyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 30 (3,4-Diaminophenyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl]
- (6-Chlorobenzimidazol-2-on-5-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

- (1-Methylindol-7-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Hydroxy, 4-aminophenyl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 5 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-methylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-(pyridine-2-carbonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-(pyridine-3-carbonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 10 (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-carbomethoxy-4-methoxycarbonylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-carboxy-4-methoxycarbonylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 15 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carbomethoxy-4-methylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Ethoxyphenyl)-[2-chloro-4(*E*-[(3-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- (2-Ethoxyphenyl)-[2-chloro-4(*E*-[(3-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- 20 (2-Ethoxyphenyl)-[2-chloro-4(*E*-[(2-ethoxycarbonylpiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((1-(*tert*-butoxycarbonyl)-4-hydroxypyrrolidin-3-ylamino)carbonyl)ethenyl)phenyl] sulfide;
- 25 (2-Ethoxyphenyl)-[2-chloro-4(*E*-[(2-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-(((pyrrol-3-in-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 2-Ethoxyphenyl[2-trifluoromethyl-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl)ethenyl)phenyl] sulfide;
- 30 (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((4-(ethoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

- (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((4-(2-furylcarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Ethoxyphenyl)-[2-chloro-4(*E*-[(3-ethoxycarbonylpiperidin-1-yl)carbonyl]ethenyl) phenyl] sulfide;
- 5 (2-Ethoxyphenyl)-[2-chloro-4(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- (Benzodioxan-6-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-ethoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 10 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-isopropoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-isobutoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 15 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-((1-propen-2-oxy)carbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-propionylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-carboxamidopiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 20 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-methylaminocarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-(pyrimidin-2-yl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 25 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-hydroxyacetyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-(pyrazine-2-carbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-trifluoromethyl-4-(*E*-((2-carboxypyrrol-3-in-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 30 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-hydroxymethyl-4-methylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-trifluoromethyl-4-(*E*-((2-carboxypyrrol-3-in-1-yl)carbonyl)ethenyl) phenyl] sulfide;

- (2-Isopropylphenyl)[2-trifluoromethyl-4-(*E*-((2-hydroxymethylpyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 5 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-cyclopropylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carboxamidopiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carbomethoxy-4-oxopiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 10 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3,5-dimethylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (1-Ethylindol-7-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 15 (3-[2-Methoxy]ethoxyphenyl)-[2-chloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- (2-Bromophenyl)[2-chloro-4-(*E*-((4,4'-*S*-dioxythiomorpholin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- (2-Bromophenyl)[2-chloro-4-(*E*-(*N*-carbomethoxymethyl-*N*-(3-(pyrrolidin-2-on-1-yl)prop-1-yl)amino)carbonyl) ethenyl)phenyl]sulfide;
- 20 (2-Bromophenyl)[2-chloro-4-(*E*-((4-*S*-oxythiomorpholin-1-yl)-2-pyrrolidinone)carbonyl) ethenyl)phenyl]sulfide;
- (2-Methoxy-5-chlorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 25 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-acetoxymethyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3,5-dimethyl-4acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (1-Methylindol-5-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 30 (Benzodioxan-6-yl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-nitro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl)ethenyl)phenyl]sulfide;



- (Benzodioxan-6-yl)[2-nitro-4-(*E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-nitro-4-(*E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 5 (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*Z*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((6-methylpyrid-2-ylamino)carbonyl)ethenyl) phenyl] sulfide;
- (2-Methyl-3-chlorophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 10 (Benzodioxan-6-yl)[2-nitro-4-(*E*-((3-carboxamidopiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-nitro-4-(*E*-((2-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 15 (Benzodioxan-6-yl)[2-nitro-4-(*E*-((4-carboxamidopiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-nitro-4-(*E*-((4-*tert*-butoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((*syn*-3,5-dimethylmorpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 20 (2-Isopropylphenyl)[2-nitro-4-(*E*-((*anti*-3,5-dimethylmorpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carboethoxypiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 25 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-isopropoxycarbonylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(dimethylaminocarbonyl)-4-methylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carbomethoxy-4-hydroxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 30 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-hydroxymethyl-4-hydroxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((2-carbomethoxy-4-(methoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

- (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((2-carbomethoxy-4-methyl piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-((2-carboxy-4-(methoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 5 (Indol-6-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (1-Ethyl,3-(dimethylaminomethyl)indol-7-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (5-Ethoxybenzodioxan-6-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 10 (2-Ethyl-4-bromophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-nitro-4-(*E*-((2-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-nitro-4-(*E*-((4-carboxymethylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 15 (3-Morpholinophenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (5-Ethoxybenzodioxan-8-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 20 (5-Chloro-8-ethoxyquinolin-7-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 25 (2-Isopropylphenyl)[2-nitro-4-(*E*-(((3-ethanesulfonylaminocarbonyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-(((3-(4-methylpiperazine) sulfonylaminocarbonyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 30 (2-Isopropylphenyl)[2-nitro-4-(*E*-(((3-*p*-toluenesulfonylaminocarbonyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-methyl-4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Hydroxyphenyl)-[2-chloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl]sulfide

- (1-(Carboxymethyl)indol-5-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 5 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(1-pyrrolidin-2-onyl)prop-1-ylamino)carbonyl)ethenyl) phenyl] sulfide;  
 (3-(2-Morpholinoethylamino)phenyl)[2-trifluoromethyl-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Pyrrolidin-1-ylphenyl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 10 (3-Bromophenyl)[2-nitro-4-(*E*-((3-carboethoxypyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (3-Bromophenyl)[2-nitro-4-(*E*-((4-carboethoxypyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 15 (2-(Hydroxymethyl)-benzodioxan-6-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;  
 (3-(Dimethylaminomethyl)indol-5-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 20 (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 25 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-(((4-*p*-toluenesulfonylaminocarbonyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 30 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carboxy-4-hydroxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;  
 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-nitro-4-(*E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 5 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-carboxypyrrolidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2-carbomethoxy-4-*tert*-butoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 10 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2-carbomethoxy-4-methoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2-carbomethoxypiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 15 (2-Methyl-3-(carboethoxymethyl)indol-5-yl)[2-trifluoromethyl-4-(*E*-((morpholin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (1-(2-Methoxyethyl)indol-5-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-acetoxymethyl-4-hydroxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 20 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(dimethylaminocarbonyl)-4-hydroxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-cyanomorpholin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 25 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carboethoxymorpholin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(tetrazol-5-yl)morpholin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 30 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((4-carbomethoxypiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-aza-6,9-dioxaspiro[5.4]decan-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoro-4-(*E*-((4-(benzimidazol-1-yl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 5 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((4-(methylaminocarbonyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-carbomethoxy-4-methoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carboxymorpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 10 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2-carboxy-4-methoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 15 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((4-(pyrrolidin-1-yl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-aza-6,9-dioxaspiro[5.4]decan-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-(dimethylaminomethyl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 20 (2-Isopropylphenyl)[2-nitro-4-(*E*-((piperidin-1-ylamino)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-carboxy-4-methoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 25 (2-(Dimethylaminocarbonyl)-benzodioxan-6-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(2-(methoxymethyl)tetrazol-5-yl) piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(1-(methoxymethyl)tetrazol-5-yl) piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 30 (1-Methylindol-5-yl)[2-chloro-4-(*E*-((3-(1-pyrrolidin-2-onyl)propylamino) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(tetrazol-5-yl) piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

- (1-Methylindol-5-yl)[2-chloro-4-(*E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide
- (1-Methylindol-5-yl)[2-chloro-4-(*E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 5 (1-Methylindol-5-yl)[2-chloro-4-(*E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (1-Methylindol-5-yl)[2-chloro-4-(*E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-(1-methylpyrrolidin-2-yl)ethylamino)carbonyl)ethenyl) phenyl] sulfide;
- 10 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-(pyrrolidin-1-yl)piperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-sulfopiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 15 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-hydroxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-((ethanesulfonylamino)carbonyl)piperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-(*p*-toluenesulfonylamino)carbonyl)piperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 20 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((4-((ethanesulfonylamino)carbonyl)piperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2(tetrazol-5-yl)morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 25 (2-Isopropylphenyl)[2-nitro-4-(*E*-((2-butyl, 5-(tetrazol-5-yl)morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-(and 3-)(Hydroxymethyl)-benzodioxan-6-yl)[2-nitro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-(and 3-)(Hydroxymethyl)-benzodioxan-6-yl)[2-nitro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;
- 30 (2-(and 3-)(Hydroxymethyl)-benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;
- (3-Hydroxymethyl)-benzodioxan-6-yl)[2-nitro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;

- Benzodioxan-6-yl)[2-chloro-4-(*E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl]
- (2-(and 3-)(Aminomethyl)-benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl)ethenyl)phenyl]sulfide;
- 5 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(methylaminocarbonyl)morpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(hydroxymethyl)morpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(acetoxymethyl)morpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 10 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(aminomethyl)morpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(acetamidomethyl)morpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 15 (Benzodioxan-6-yl)[2-chloro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl)ethenyl)phenyl]sulfide;
- (Benzodioxan-6-yl)[2-chloro-4-(*E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (Benzodioxan-6-yl)[2-chloro-4-(*E*-((2-carboethoxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide
- 20 (2-Methoxyphenyl)-[2,3-dichloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl)-[2,3-dimethyl-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- 25 (2-Isopropylphenyl)[2-nitro-4-(*E*-((indol-5-ylamino)carbonyl)ethenyl)phenyl] sulfide;
- (Benzodioxan-6-yl)[2-chloro-4-(*E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (Benzodioxan-6-yl)[2-chloro-4-(*E*-((3-(tetrazol-5-yl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 30 (Benzodioxan-6-yl)[2-chloro-4-(*E*-((4-(*tert*-butoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (Benzodioxan-6-yl)[2-chloro-4-(*E*-((2-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

- (Benzodioxan-6-yl)[2-chloro-4-(*E*-((3-(tetrazol-5-yl)morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-chloro-4-(*E*-((4-(methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 5 (2-Methoxyphenyl)-[2,3-dichloro-4(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-chloro-4-(*E*-((4-(tetrazol-5-yl)piperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Methoxyphenyl)-[3-chloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl]sulfide;
- 10 (2-Isopropylphenyl)[2-nitro-4-(*E*-((4-oxopiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-*R*-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-*R*-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 15 (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;
- (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((4-acetylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 20 (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 25 (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2,3-dichloro-4-(*E*-((3-(1-pyrrolidin-2-onyl)propylamino) carbonyl)ethenyl) phenyl] sulfide;
- 30 (2-Isopropylphenyl)[2,3-dichloro-4-(*E*-((4-acetylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2,3-dichloro-4-(*E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2,3-dichloro-4-(*E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
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- (2-Isopropylphenyl)[2,3-dichloro-4-(*E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2,3-dichloro-4-(*E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 5 (1-Methylindol-5-yl)[2,3-dichloro-4-(*E*-((3-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (1-Methylindol-5-yl)[2,3-dichloro-4-(*E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (1-Methylindol-5-yl)[2,3-dichloro-4-(*E*-((4-carboethoxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 10 (1-Methylindol-5-yl)[2,3-dichloro-4-(*E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Ethoxyphenyl)-[2,3-dichloro-4(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl) phenyl] sulfide;
- (2-Ethoxyphenyl)-[2,3-dichloro-4(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- 15 (2-Ethoxyphenyl)-[2,3-dichloro-4(*E*-[(3-carboxypiperidin-1-yl)carbonyl]ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carboethoxypyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 20 (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-carboxypyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2,3-difluoro-4-(*E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 25 (2-Isopropylphenyl)[2,3-difluoro-4-(*E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2,3-difluoro-4-(*E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-ethoxycarbonylpyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide
- 30 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-carboxypyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Methoxyphenyl)[2-chloro-3-trifluoromethyl-4-(*E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;

- (2-Methoxyphenyl)[2-chloro-3-trifluoromethyl-4-(*E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (2-Methoxyphenyl)[2-chloro-3-trifluoromethyl-4-(*E*-((morpholin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 5 (Benzodioxan-6-yl) [ 4-(*E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl)naphthyl] sulfide;
- (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((4-(spiro-hydantoin-5-yl)-piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-(4-(2-(2-hydroxyethoxy)ethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 10 (2-Methoxyphenyl)[ 2,3-dichloro-4-(*E*-((4-ethylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Isopropylphenyl)[ 2,3-dichloro-4-(*E*-((4-(2-(2-hydroxyethoxy)ethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 15 (Benzodioxan-6yl)[2,3-bis(trifluoromethyl)-4-(*E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((4-(carboxymethylamino)carbonyl-piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-carboxymethylpiperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- 20 (2-Methoxyphenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-N-(2-hydroxyethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide;
- (1-Methylindol-5-yl) [2,3-dichloro-4-(*E*-((4-(carbo-2,3-dihydroxypropylamino)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 25 (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-(4-(2,3-dihydroxypropionyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-(4-(2,3-dihydroxy-3-carboxypropionyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (1-Methylindol-5-yl) [2,3-dichloro-4-(*E*-((4-(carboxymethylamino)carbonyl-piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 30 (1-Methylindol-5-yl) [2,3-dichloro-4-(*E*-((4-sulfopiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (1-Methylindol-5-yl) [2,3-dichloro-4-(*E*-(4-methylhomopiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

- (1-Methylindol-5-yl) [2,3-dichloro-4-(*E*-(4-tetrahydrofuroyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((4-amino-4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 5 (2-Methoxyphenyl)[2,3-dichloro-4-((4-furoyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (1-Methylindol-5-yl) [2,3-dichloro-4-(*E*-(4-(carbo-3-sulfopropylamino)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl)[ 2,3-dichloro-4-(*E*-(4-acetylamino-4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 10 (2-Methoxyphenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl) 5-[8-(*E*-((4-(aminocarbonyl)piperidin-1-yl)carbonyl)ethenyl)quinoliny] sulfide;
- 15 (2-Methoxyphenyl) [2-trifluoromethyl-4-(*E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (1-Methylindol-5-yl) [ 2,3-dichloro-4-(*E/Z*-((1*S*,4*S*)-2,5-diazabicyclo(2,2,1)heptan-2-ylcarbonyl)ethenyl)-2,3-dichlorophenyl] sulfide;
- (1-Methylindol-5-yl) [2,3-dichloro-4-(*E*-(4-hydroxy-3-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;;
- 20 (1-Methylindol-5-yl) [ 2,3-dichloro-4-(*E*-(*S*-oxothiomorpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((4-sulfophenylamino)carbonyl)ethenyl)phenyl] sulfide;
- 25 (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((4-carboxyphenylamino)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Morpholino)phenyl] [2,3-dichloro-4-(*E*-[(4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Morpholino)phenyl] [2,3-dichloro-4-(*E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 3 (2-Methoxyphenyl)[2,3-bis(trifluoromethyl)-4-(*E*-((4-phenylcarboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-(((4-hydroxylaminocarbonyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

- (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((N-carboxymethyl-N-phenylamino)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl) [3-chloro-6-hydroxy-4-(*E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 5 (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-4-((1-(2-phenyl-1-carboxyethyl)amino)carbonyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-4-((1-(2-hydroxy-1-carboxyethyl)amino)carbonyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 10 (3-(1-(3-Carboxypiperidinyl)phenyl)[2,3-dichloro-4-(*E*-((1,2,5,6-tetrahydropyridin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (3-(4-Pyrrolidin-1-yl)piperidin-1-yl)phenyl [2,3-dichloro-4-(*E*-((3-(2-pyrrolidinon-1-yl)propylamino)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-(Spiro-2,2-dioxolanyl)piperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;
- 15 [3-(3-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- (2-(2-Carboxy)ethenyl)phenyl [2,3-dichloro-4-(*E*-((4-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-[(1,2,3,6-tetrahydropyridine)-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- 20 [3-(4-Carboxypiperidinyl)phenyl] [2,3-dichloro-4-(*E*-[(4-morpholinyl)carbonyl]ethenyl)phenyl] sulfide;
- [2-(4-Acetylpiperazin-1-yl)phenyl] [2,3-dichloro-4-(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- 25 3-(3-Carboxypiperidin-1-yl)phenyl [2,3-dichloro-4-(*E*-[(4-morpholinyl)carbonyl]ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-[(4-(dimethylaminosulfamoyl)piperazin-1-yl)carbonyl]ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl)[2,3-bis(trifluoromethyl)-4-(*E*-((3-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 30 (2-Methoxyphenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((2-carboxypyrrolidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-((trifluoromethylsulfonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

- (2-Methoxyphenyl)[2,3-dichloro-4-(*E*-(piperidin-1-ylcarbonyl)ethenyl)phenyl] sulfide;
- (2-Hydroxyphenyl) [2,3-dichloro-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- 5 (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-(((4-carboxyphenyl)methyl)amino)carbonyl)ethenyl)phenyl] sulfide;
- (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-(((4-pyrrolidin-1-yl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Hydroxyphenyl)[2,3-dichloro-4-(*E*-((4-carboxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 10 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-((methylsulfonyl)piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Aminophenyl) [2,3-dichloro-4-(*E*-((4-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;
- 15 (3-(4-carboxypiperidin-1-yl)phenyl)[2,3-dichloro-4-(*E*-((*S*-oxothiomorpholin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-hydroxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- (2-Glycoxyphenyl) [2,3-dichloro-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- 20 (2-(4-Butyroxyl)phenyl)[2,3-dichloro-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-hydroxyethylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 25 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-furoylpiperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((pyrrolidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((diethylaminocarbonyl)ethenyl)phenyl] sulfide;
- 30 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-ethylpiperazin-yl)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-(aminocarbonyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-((4-(2-ethoxyethyl)piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- [3-((4-Carboxymethyl)piperazin-1-yl)phenyl] [(2,3-dichloro-4-(*E*-(4-morpholinyl)carbonyl)ethenyl)phenyl] sulfide;
- 5 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- (3-Hydroxyphenyl) [2,3-dichloro-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Butyroxyl)phenyl] [2,3-dichloro-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- 10 (2-Hydroxyphenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- (3-Hydroxyphenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- 15 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-ditrifluoromethyl-4-(*E*-((4-hydroxypiperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-ditrifluoromethyl-4-(*E*-((1,2,5,6-tetrahydropyridin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- [2-((4-Carboxy)butyloxy)phenyl] [2,3-dichloro-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- 20 (2-Glycoxyphenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- (2-(4-Butyroxyl)phenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- 25 [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-ditrifluoromethyl-4-(*E*-((bis-(2-ethoxyethyl)amino)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-bis-(trifluoromethyl)-4-(*E*-((bis-(2-hydroxypropyl)amino)carbonyl)ethenyl)phenyl] sulfide;
- [3-(4-Carboxypiperidin-1-yl)phenyl] [2,3-bis-(trifluoromethyl)-4-(*E*-((piperazin-1-yl)carbonyl)ethenyl)phenyl] sulfide;
- 30 (3-(4-Butyroxyl)phenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-morpholino)carbonyl)ethenyl)phenyl] sulfide;
- [2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-[(3-(2-pyrrolidinon-1-yl)propylaminocarbonyl)ethenyl)phenyl] sulfide;

- [2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(*E*-[(3-(2-pyrrolidinon-1-yl)propylaminocarbonyl)ethenyl]phenyl] sulfide;  
 [2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-dichloro-4-(*E*-[(4-(2-hydroxyethyl)piperazin-1-yl)carbonyl)ethenyl]phenyl] sulfide;  
 5 [2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(*E*-[(1,2,5,6-tetrahydropyridin-1-yl)carbonyl)ethenyl]phenyl] sulfide;  
 [2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(*E*-[(4-(2-hydroxyethyl)piperazin-1-yl)carbonyl)ethenyl]phenyl] sulfide;  
 [2-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(*E*-[(4-(2-(hydroxyethoxy)ethyl)piperazin-1-yl)carbonyl)ethenyl]phenyl] sulfide;  
 10 (3-(3-Propioxy)phenyl) [2,3-dichloro-4-(*E*-[(4-morpholino)carbonyl)ethenyl]phenyl] sulfide;  
 [3-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(*E*-[(4-morpholino)carbonyl)ethenyl]phenyl] sulfide;  
 15 (R)-[3-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(*E*-[(4-morpholino)carbonyl)ethenyl]phenyl] sulfide; and  
 (S)-[3-(3-Carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(*E*-[(4-morpholino)carbonyl)ethenyl]phenyl] sulfide.
- 20 13. A compound according to Claim 1 selected from the group consisting of:  
 (2-Formylphenyl)[2-nitro-4-(*E*-[(4-acetylpiperazin-1-yl)carbonyl)ethenyl]phenyl] sulfide;  
 (2-Ethoxyphenyl)-[2-chloro-4-(*E*-[(morpholin-1-yl)carbonyl]ethenyl)phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-[(3-dimethylaminocarbonyl)-4-acetylpiperazin-1-yl)carbonyl)ethenyl] phenyl] sulfide;  
 25 (2-Isopropylphenyl)[2-nitro-4-(*E*-[(4-methoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl] phenyl] sulfide;  
 (2-Ethoxyphenyl)[2-trifluoromethyl-4-(*E*-[(2-carboxy-4-(methoxycarbonyl)piperazin-1-yl)carbonyl)ethenyl] phenyl] sulfide;  
 30 (2-Ethyl-4-bromophenyl)[2-nitro-4-(*E*-[(4-acetylpiperazin-1-yl)carbonyl)ethenyl] phenyl] sulfide;  
 (3-Morpholinophenyl)[2-nitro-4-(*E*-[(4-acetylpiperazin-1-yl)carbonyl)ethenyl] phenyl] sulfide;  
 (2-Isopropylphenyl)[2-nitro-4-(*E*-[(3-carboethoxypiperidin-1-yl)carbonyl)ethenyl] phenyl] sulfide;  
 35

- (2-Isopropylphenyl)[2-nitro-4-(*E*-((3-(1-pyrrolidin-2-onyl)prop-1-ylamino)carbonyl)ethenyl) phenyl] sulfide;
- (2-(Hydroxymethyl)-benzodioxan-6-yl)[2-chloro-4-(*E*-((4-acetylpiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 5 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-carboxypyrrolidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2-carbomethoxy-4-methoxycarbonylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 10 (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((2-carbomethoxypiperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-chloro-4-(*E*-((4-(methylaminocarbonyl)piperazin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 15 (2-Methoxyphenyl)-[2,3-dichloro-4(*E*-[(4-carboxypiperidin-1-yl)carbonyl]ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2-trifluoromethyl-4-(*E*-((3-*R*-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((3-(pyrrolidin-2-on-1-yl)prop-1-ylamino)carbonyl) ethenyl)phenyl]sulfide;
- 20 (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((4-acetylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- 25 (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((4-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (Benzodioxan-6-yl)[2,3-dichloro-4-(*E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- 30 (2-Isopropylphenyl)[2,3-dichloro-4-(*E*-((4-acetylpiperazin-1-yl) carbonyl)ethenyl) phenyl] sulfide;
- (2-Isopropylphenyl)[2,3-dichloro-4-(*E*-((3-carboethoxypiperidin-1-yl)carbonyl)ethenyl) phenyl] sulfide;



(2-Isopropylphenyl)[2,3-dichloro-4-(*E*-((3-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

(2-Isopropylphenyl)[2,3-dichloro-4-(*E*-((4-carboxypiperidin-1-yl) carbonyl)ethenyl) phenyl] sulfide;

5 (2-Methoxyphenyl) [2,3-dichloro-4-(*E*-((4-(carboxymethylamino)carbonyl-piperidin-1-yl)carbonyl)ethenyl)phenyl] sulfide;

(2-Methoxyphenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-carboxymethylpiperazin-1-yl) carbonyl)ethenyl)phenyl]sulfide; and

10 (2-Methoxyphenyl) [2,3-bis(trifluoromethyl)-4-(*E*-((4-N-(2-hydroxyethyl)piperazin-1-yl)carbonyl)ethenyl)phenyl]sulfide.

14. A compound according to Claim 1 wherein **Ar** is selected from the group consisting of methoxyphenyl and isopropylphenyl.

15 15. A compound according to Claim 1 wherein **Ar** is benzodioxan or substituted benzodioxan.

16. A compound according to Claim 1 wherein  $R_3$  is a "trans-cinnamide"; and **Ar** is selected from 1,3-benzimidazol-2-one, 1,4-benzodioxane, 1,3-benzodioxole, 1-benzopyr-2-en-4-one, indole, isatin, phenyl, 1,3-quinazolin-4-one, and quinoline.

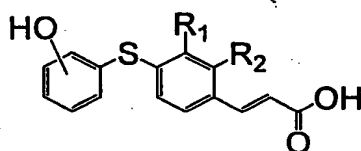
20 17. A compound according to Claim 1 wherein  $R_{10}$  and  $R_{11}$  are independently selected from hydrogen, alkyl, cycloalkyl, alkoxycarbonylalkyl, hydroxyalkyl, and heterocyclalkyl.

25 18. A compound according to Claim 1 wherein  $NR_{10}R_{11}$  is heterocyclyl or substituted heterocyclyl.

19. A pharmaceutical composition comprising a compound of Claim 1 in a pharmaceutically-acceptable carrier.

30 20. A method of inhibiting inflammation comprising the administration of a compound of Claim 1 to a mammal in need of treatment.

21. A method of inhibiting inflammation comprising the administration of a composition of Claim 19 to a mammal in need of treatment.
22. A method of suppressing immune response comprising the administration of a compound of Claim 1 to a mammal in need of treatment.
23. A method of suppressing immune response comprising the administration of a composition of Claim 19 to a mammal in need of treatment.
24. A compound of formula II

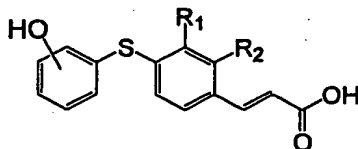


II

wherein  $R_1$  and  $R_2$  are independently selected from the group consisting of

- a. hydrogen,
- b. halogen,
- c. alkyl,
- d. haloalkyl,
- e. alkoxy,
- f. cyano,
- g. nitro, and
- h. carboxaldehyde.

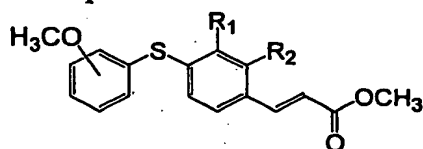
25. A process for preparing a compound of formula II



II

which comprises:

- a) reacting a compound of formula II'



## II'

with lithium hydroxide, and

b) cleaving the resulting methyl ether.

26. The compound of Claim 1 with the proviso that when three of R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub>, and R<sub>5</sub> are hydrogen, then the remaining R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub>, or R<sub>5</sub> is not carboxyl, 5-tetrazolyl, hydroxymethyl or carboxyl derivatized in the form of a pharmaceutically acceptable ester.

27. A compound according to Claim 1 wherein R<sup>1</sup> is haloalkyl; R<sup>2</sup> is haloalkyl; R<sup>3</sup> is trans-cinnamide wherein R<sup>8</sup> and R<sup>9</sup> are hydrogen and R<sup>10</sup> and R<sup>11</sup> together are heterocyclyl; R<sup>4</sup> is hydrogen; R<sup>5</sup> is hydrogen; and Ar is aryl, wherein the aryl is substituted with substituted heterocyclyl.

28. A compound according to Claim 1 wherein R<sup>1</sup> is trifluoromethyl; R<sup>2</sup> is trifluoromethyl; R<sup>3</sup> is trans-cinnamide wherein R<sup>8</sup> and R<sup>9</sup> are hydrogen and R<sup>10</sup> and R<sup>11</sup> together are morpholino; R<sup>4</sup> is hydrogen; R<sup>5</sup> is hydrogen; and Ar is phenyl, wherein the phenyl is substituted with substituted piperidine.

29. A compound according to Claim 12 that is  
[3-(3-carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl]sulfide.

30. A compound according to Claim 12 that is  
(R)-[3-(3-carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl]sulfide.

31. A compound according to Claim 12 that is  
(S)-[3-(3-carboxypiperidin-1-yl)phenyl] [2,3-bis(trifluoromethyl)-4-(E-((4-morpholino)carbonyl)ethenyl)phenyl]sulfide.

32. A method of treating cerebral vasospasm comprising the administration of a compound of Claim 1 to a mammal in need of treatment.

33. A method of treating cerebral vasospasm comprising the administration of a composition of Claim 19 to a mammal in need of treatment.